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NOTICE OF ALLOWANCE AND FEE(S) DUE

77042	7590	09/01/2010	[EXAM	MINER	
Perkins Co	ie LLP		-	LE, MI	RANDA	
P.O. Box 12			ſ	ART UNIT	PAPER NUMBER	
Seattle, WA	98111-1208			-150		•

DATE MAILED: 09/01/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800.163	03/12/2004	Vijay Deshmukh	67272-8062.US01	9062

TITLE OF INVENTION: METHOD AND APPARATUS FOR REPRESENTING FILE SYSTEM METADATA WITHIN A DATABASE FOR EFFICIENT OUERIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	12/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includired below or directed of tions.	or trang the nerwise	smitting the ISSU Patent, advance or in Block 1, by (a					hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDE	Not Fee pap hav	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
77042	7590 09/01	/2010					of Mailing or Trans	mission
Perkins Coie L P.O. Box 1208 Seattle, WA 981				I he Stat add tran	eby certify that th	is Feet	() Transmittal is being	deposited with the United it class mail in an envelope above, or being facsimile ate indicated below.
								(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/800,163	03/12/2004			Vijay Deshmukh		67	272-8062.US01	9062
QUERIES				NTING FILE SYSTEM N				
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$0	\$0		\$1510	12/01/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS				
LE, MIR	ANDA		2159	707-825000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ess an assignee is ident h in 37 CFR 3.11. Comp	" Indicaded. Us	ation form e of a Customer E PRINTED ON	(I) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or : 2 registered patent atto listed, no name will be PHE PATENT (print or tyl data will appear on the p I a substitute for filing an (B) RESIDENCE: (CITY	vely, e firm (having as a gent) and the nam meys or agents. If printed. ec) atent. If an assign assignment.	membes of u no nan	er a 2p to p to se is 3	ocument has been filed for
Please check the appropri	iate assignee category or	catego	ories (will not be pr	inted on the patent):	Individual 🚨 Co	orporati	on or other private gro	oup entity Government
Advance Order - #	o small entity discount p		ed)	o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 authorized to char	is atta	ched. required fee(s), any de	
	s SMALL ENTITY state	ıs. See	37 CFR 1.27.	b. Applicant is no lon				
interest as shown by the r	d Publication Fee (it requeecords of the United Sta	uired) tes Pat	will not be accepted ent and Trademark	office.	he applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.		FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/800,163	,163 03/12/2004		Vijay Deshmukh	67272-8062.US01	9062	
77042 7590 09/01/2010				EXAMINER		
Perkins Coie	LLP			LE, MIRANDA		
P.O. Box 1208			ART UNIT	PAPER NUMBER		
Seattle, WA 98	3111-1208	1	2159			
				DATE MAILED: 09/01/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 211 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 211 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/800,163 DESHMUKH ET AL. Notice of Allowability Examiner Art Unit MIRANDA LE 2159 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to RCE file 06/28/10. The allowed claim(s) is/are 1-3,5,6,9-12,14,15,18,39 and 40. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 06/28/10, 08/04/10 8. X Examiner's Statement of Reasons for Allowance ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

Primary Examiner, Art Unit 2159

/Miranda Le/

Other .

Art Unit: 2159

DETAILED ACTION

This communication is responsive to a RCE amendment filed 06/28/2010.

Information Disclosure Statement

Applicants' Information Disclosure Statements, filed 06/28/2010 and 08/04/10, have been received, entered into the record, and considered. See attached form PTO-1449.

Statement of Reasons for Allowance

Claims 1-3, 5-6, 9-12, 14-15, 18, 39-40 are allowed.

The following is an examiner's statement of reasons for allowance.

The present invention is directed to a method for creating a file information database. A storage server having a directory structure is scanned or "file walk". Data regarding the directory structure is collected. Identification (ID) numbers are assigned to directories in the directory structure according to a depth first search (DFS) order. A table including the ID numbers is then written to store the results of a file walk so that they can easily be accessed and searched by an administrator.

All independent claims 1, 10, 39 recite, or similarly recite, in combination with the remaining elements, the methods/machine readable medium comprising:

Deleted: writing a data structure including the first ID number, the second ID number and a relation between the first directory and the second directory, wherein the relation indicates that the first directory is an immediate child of the second directory, and wherein the data structure is traversable based on the ID numbers to determine relationships between directories of the storage server:¶ receiving a request to determine an immediate child or parent of a specified directory, wherein the specified directory is the first directory or the second directory:¶ searching the data structure for any relation indicative that the specified directory is a child or a parent in said relation, wherein said searching produces as a result said relation between the first directory and the second directory; and § determining the immediate child or parent of the specified directory based on said any relation.¶

Application/Control Number: 10/800,163

Art Unit: 2159

The closest prior art, Lord et al (US 6,961,909), Perttunen et al (US 6,563,521), Watkins et al (US 6,457,017) show similar methods for providing a web browser display of a selected part of a tree-structured directory of hierarchically-related entities in a computer system. However, Lord et al, Perttunen et al, and Watkins et al., singularly or in combination, still fail to anticipate or render the above cited limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (571) 272-4112. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James K. Trujillo, can be reached at (571) 272-3677. The fax number to this Art Unit is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Application/Control Number: 10/800,163 Page 4

Art Unit: 2159

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Miranda Le/ Primary Examiner, Art Unit 2159